

1. Alkyd resin shall be an alkyd meeting Federal Specification TT-R-266a Resin, Alkyd (Type I or Type II).
2. Specular gloss, 60°, shall be in the range of 40 to 70.

SECTION 854 GALVANIZING

854.01 GALVANIZING.

Galvanizing shall meet AASHTO M-111 or AASHTO M-232.

854.02 DAMAGED GALVANIZED COATINGS.

Repair of damaged galvanized coatings shall meet ASTM A-780.

SECTION 856 SOIL RETENTION BLANKETS

856.01 WOOD EXCELSIOR FIBER MAT.

The wood excelsior fiber mat shall consist of a machine produced mat of cured wood excelsior in which 80% of the fibers are 6 inches or longer. The fiber mat shall have a consistent thickness of fiber evenly distributed over the entire area. The top of each mat shall be covered with a photo-degradable extruded plastic mesh with maximum openings of 1 inch by 3 inches. The wood excelsior fiber mat shall be treated to be smolder resistant without using chemical additives.

The fiber mat shall have the following physical properties:

| | |
|------------------------|------------------------------|
| Width of Mat | Min. 36 inches |
| Roll Length | Min. 100 feet |
| Weight | Min. 0.7 pounds per sq. yard |

856.02 STRAW AND FIBER MATS

- A. **Straw Mat.** The mat shall be machine produced of clean straw from agricultural crops and be sewn together with biodegradable cotton or nylon thread. The top side shall be covered with a biodegradable plastic mesh or netting with maximum openings of 5/8 by 5/8 inches.

The straw mat shall have the following properties:

Width of Mat Min. 48 inches
 Roll Length Min. 80 feet
 Weight Min. 0.5 pounds per sq. yard

- B. **Straw Mat With Mesh or Netting on Top and Bottom.** Material shall meet Section 856.02 A except that it shall be furnished with mesh or netting on the top and bottom of the mat.
- C. **Straw – Coconut Fiber Mat.** Material shall meet Section 856.02 A except that the mat shall consist of 70% straw and 30% coconut fiber.
- D. **Straw – Coconut Fiber Mat With Mesh or Netting on Top and Bottom.** Material shall meet Section 856.02 B except that the mat shall consist of 70% straw and 30% coconut fibers.
- E. **Coconut Fiber Mat.** Material shall meet Section 856.02 B except that the mat shall be machine produced of 100% coconut fiber and shall be sewn together with biodegradable nylon (polyester) thread. Both top and bottom sides shall be covered with a biodegradable plastic mesh or netting. One side shall be heavy duty mesh with a minimum weight of 2.5 pounds per 1,000 square feet. Maximum size mesh openings shall be 5/8 by 5/8 inches.

856.03 EROSION CONTROL FABRIC.

- A. **Nylon Monofilament Mat.** The mat shall consist of 3-dimensional matting made from Nylon 6 monofilaments with a minimum content of 0.5% carbon black by weight and shall be fused at their intersections. The matting shall not deteriorate due to exposure to ultra-violet radiation. Both top and bottom of the mat shall be covered with a biodegradable plastic mesh or netting with maximum openings of 5/8 by 5/8 inches. It shall be furnished in a roll with the following characteristics:

| Property | Test Method | Requirements |
|--|--|-----------------------|
| Length of Roll | | Min. 100 feet |
| Width of Roll | | Min. 36 inches |
| Weight of Fabric | | Min. 7 ounces/sq. yd. |
| Thickness of Fabric | | Min. 0.35 inch |
| Tensile Properties | | |
| Strength lb./inch, Min. | ASTM D-1682 modified to obtain filament bond strength | |
| Length Direction | | 7.5 |
| Width Direction | | 4.3 |
| Elongation %, Min. | | |
| Length Direction | | 50 |
| Width Direction | | 50 |
| Resiliency | Compression load cycling of 100 psi on 2 inch by 2 inch sample size, crosshead speed of 2 inches per minute. | |
| 30 min. Recovery %, Min. (3 cycles) | | 80 |

- B. **Vinyl Monofilament Mat.** Material shall meet Section 856.03 A except that the mat shall be constructed of entangled vinyl monofilaments. The minimum thickness shall be 0.25 inches.

856.04 STAPLES.

Staples for erosion control blankets shall be constructed of 11 gauge or heavier steel wire and shall be either U-shaped measuring at least 1 inch across the top and at least 6 inches along each leg, or shall be T-shaped measuring at least 4 inches across the top and at least 8 inches in length.

856.05 FABRIC FORMED SLOPE PROTECTION.

Fabric forming material shall consist of specially woven, double-layer, open salvage fabric joined in a mat configuration. The fabric shall consist of uncoated synthetic yarns with sufficient tensile strength and porosity to withstand the pressure of the grout injection pump without breaking the layers of fabric.

Spacer threads capable of a tensile strength of at least 8.0 psi of surface area shall be woven between the layers at the required distance to control the mat thickness.

SECTION 858 GEOTEXTILE FABRICS

858.01 GENERAL.

Geotextile fabric shall be a fabric consisting of polymeric filament or yarns such as polypropylene, polyethylene, polyester, polyamide, or polyvinylidene chloride. The filaments or yarns shall be formed into a stable network so they retain their relative position to each other. The geotextile shall be inert to commonly encountered chemicals and meet the properties in the following table: